

**Space Data Coordination Group Meeting (SDCG-10)**  
7<sup>th</sup> - 9<sup>th</sup> September 2016, Hosted by UKSA at University of Reading  
*Meeting Objectives*

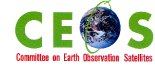
The SDCG-10 meeting will be structured around the outcomes and tasks defined in the **group's 3-Year (2016-2018) Work Plan**. SDCG-10 marks 4½ years since the first SDCG meeting in March 2012, and provides an opportunity to reflect on progress made, update on the status of current activities, and plan for the rest of 2016, and future 2017 activities. The following are the objectives for SDCG-10:

1. Take the opportunity to **inform the UK community about GFOI** and the space data component and encourage its uptake, establish an improved understanding and connection to relevant UK activities, expertise and current and future UK data sources.
2. Revisit the status of tasks and outcomes from the **SDCG 3-Year (2016-2018) Work Plan** across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.
3. Examine the **end-to-end GFOI country experience of Colombia** to date, across all GFOI components.
4. Coordinate with **FAO** on country interaction, tools, and support.
5. Discuss outcomes from the new **GFOI R&D** governance arrangements, interactions with GOF-C-GOLD and research teams, and confirm agency plans for data supply in support of the Element 3 acquisition strategy.
6. Review the implementation and status of the **Global Baseline Strategy**, and assess required updates.
7. Review the completed **Global Data Flows Study** and consider next steps.
8. Review and progress the **implementation of the Space Data Services**, including the Data Cube, SEPAL, and the Kenya and Colombian pilot efforts.
9. Review the status and development of the **LSI-VC** in relation to SDCG activities.
10. Consider **revisions to the SDCG 3-Year Work Plan for 2017-2019**.
11. Prepare required SDCG inputs for **CEOS SIT Technical Workshop and Plenary**.



Wednesday 7th September

Space Data Coordination Group for GFOI - SDCG-10



Location: University of Reading

Meeting Room: 1L61, Department of Meteorology, Building 58

Registration / Arrival 30 8:30 9:00

Wednesday's Objectives:

- Review and confirm status of baseline acquisitions strategy.
- Review Global Data Flows and follow-up steps.
- Exchange of information with the UK community on GFOI and related activities.

Session 1: Introduction Session Chairs: S Ward

Session 1 Objectives:

- Provide participants with a status update on GFOI and an overview of progress against 2016-2018 Work Plan outcomes.
- 2. Revisit the status of tasks and outcomes from the SDCG 3-Year (2016-2018) Work Plan across the four main work threads: baseline observations, GFOI Space Data Services, R&D, and GFOI Component Coordination and Country Engagement.

1	Welcome and Introductions - Agenda overview	FM Seifert, G Fosnight	10	9:00	9:10
2	GFOI Status Update	S Ward	10	9:10	9:20
3	2016-2018 Work Plan Outcomes Status Summary - SDCG-9 actions status	G Dyke	10	9:20	9:30
4	GEO/GEOSS status	O Ochiai	10	9:30	9:40

Session 2: Baseline Global Observation Scenario Session Chairs: FM Seifert, E Fosnight

Session 2 Objectives:

- Review the implementation and status of the Global Baseline Strategy, and assess required updates to reflect new data streams.
- 6. Review the implementation and status of the Global Baseline Strategy, and assess required updates.
- 7. Review the completed Global Data Flows Study and consider next steps.

#	Item	Presenter(s)	Duration	Start	End	Notes
5	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes	E Fosnight, FM Seifert	5	9:40	9:45	
6	Core Mission Status: Landsat - Systematic global acquisitions and long-term archive	E Fosnight	10	9:45	9:55	
7	Core Mission Status: Sentinel-1 and -2: - Systematic global Acquisitions and long-term archive - Sentinel data access and mirrors (France, Germany, others) - Copernicus Global Land Service (GLS) REDD+ service	FM Seifert	25	9:55	10:20	
8	Core Data Set Status: ALOS-2 - Systematic global acquisitions and long-term archive	S Yabe, A Rosenqvist	10	10:20	10:30	
9	Discussion - Systematic global acquisitions and long-term archive	All	10	10:30	10:40	
	Break		15	10:40	10:55	
10	Global Data Flows Report - Summary - Next Steps and Implementation	E Fosnight	30	10:55	11:25	
11	Discussion - Global Data Flows follow-up	All	30	11:25	11:55	
12	Discussion - Approach to CBERS-4 global background mission support	All	15	11:55	12:10	
	Lunch		60	12:10	13:10	

Session 3: UK Activities and Engagement Session Chair: FM Seifert

Session 3 Objective:

- 1. Take the opportunity to inform the UK community about GFOI and the space data component and encourage its uptake, establish an improved understanding and connection to relevant UK activities, expertise and current and future UK data sources.

#	Item	Presenter(s)	Duration	Start	End	Notes
13	Introduction and Session Objectives	FM Seifert, G Fosnight	5	13:10	13:15	

14	GFOI Overview - Purpose and Objectives - Components	D Muchoney, S Ward	20	13:15	13:35
15	GFOI Space Data Strategy - Global baseline acquisitions - Space Data Services - pilots and prototypes - GFOI R&D Plan support	S Ward	20	13:35	13:55
16	GFOI Capacity Building - SilvaCarbon - FAO activities	S Wilson	15	13:55	14:10
17	Discussion - Q&A on GFOI	All	15	14:10	14:25
18	Overview of UK Activities - Welcome/overview from UKSA and NCEO - UK Global forest work	J Remedios (NCEO) and Rodriguez-Veiga (Leicester)	20	14:25	14:45
	Break		15	14:45	15:00
19	New missions 1: NovaSAR - Latest status and news - Scope for use in GFOI projects	C Slim (SSTL)	15	15:00	15:15
20	New missions 2: BIOMASS Mission and In Situ data	S Quegan (Sheffield)	15	15:15	15:30
21	Discussion on new missions	Q/A	10	15:30	15:40
22	Airborne/ground support missions	P Bunting (Aberystwyth University) and I. Woodhouse (Carbonmap)	15	15:40	15:55
23	Estimating forest change and loss for UK development Aid	R. Tipper (Econometrics)	10	15:55	16:05
24	Discussion - Q&A on UK activities	All	20	16:05	16:25
25	Moderated Discussion - UK data sources - MGD application - R&D activities - Pilots and prototypes (inc CDC and ARD)	All	60	16:25	17:25
26	Closing Remarks	FM Seifert, G Fosnight	5	17:25	17:30
	Adjourn			17:30	

SDCG Social (with musical guests)

From 19:00

*The Abbot Cook*  
153 London Road  
Reading



**Thursday 8th September**  
**Space Data Coordination Group for GFOI - SDCG-10**



Location: University of Reading  
Meeting Room: 1L61, Department of Meteorology, Building 58

Registration / Arrival 30 8:30 9:00

**Thursday's Objectives:**

- Review SDCG support to GFOI R&D and confirm plans for data provision.
- Review and discuss the status of the GFOI Space Data Services.
- Exchange of information on the Colombia end-to-end country experience within GFOI.

**Session 4: Support to GFOI R&D**

Session Chairs: A Rosenqvist

**Session 4 Objective:**

5. Discuss outcomes from the new GFOI R&D governance arrangements, interactions with GOFC-GOLD and research teams, and confirm agency plans for data supply in support of the Element 3 acquisition strategy.

27	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes - Status of GFOI R&D Coordination and R&D programme - Element-3 document update summary	A Rosenqvist	20	9:00	9:20
28	Agency plans for data supply in support of the EI-3 strategy - Overview of updated data requests from GFOI R&D groups - Confirmation of agency plans for support (ASI, CNES, CSA, DLR, JAXA) - Discussion	A Rosenqvist, Agency reps	40	9:20	10:00
29	Potential Data Support from Planet (Labs) (TBC) - PlanetScope, RapidEye	R Griesbach (TBC)	30	10:00	10:30
30	GFOI R&D governance arrangements - Roles and responsibilities for data providers and GFOI R&D groups - Interactions with GOFC-GOLD and R&D groups - Discussion	Y Crevier, A Rosenqvist, All	30	10:30	11:00
Break			15	11:00	11:15
31	Discussion - Element-3 strategy structure - Implementation/action plan - Next Steps	Y Crevier, All	45	11:15	12:00

**Session 5: Space Data Services**

Session Chair: B Killough

**Session 5 Objectives:**

4. Coordinate with FAO on country interaction, tools, and support.  
8. Review and progress the implementation of the Space Data Services, including the Data Cube, SEPAL, and the Kenya and Colombian pilot efforts.  
9. Review the status and development of the LSI-VC in relation to SDCG activities.

#	Item	Presenter(s)	Duration	Start	End	Notes
32	Session Overview - Status Overview of 3-Year Work Plan Tasks and Outcomes	B Killough	5	12:00	12:05	
33	CEOS Data Cube - Technology overview - Work Plan - Pilots status: Kenya, Colombia	B Killough	30	12:05	12:35	
34	Forest Thematic Exploitation Platform - Functional description - Availability and applicability	FM Seifert	15	12:35	12:50	
35	SEPAL Update - Status of SEPAL 2.0	E Lindquist	20	12:50	13:10	
36	Discussion - Coordination with FAO - LSI VC related activities	All	20	13:10	13:30	
Lunch			60	13:30	14:30	

**Session 6: Colombia GFOI End-to-End Experience**

Session Chair: S Wilson

**Session 6 Objectives:**

3. Examine the end-to-end GFOI country experience of Colombia to date, across all GFOI components.  
4. Coordinate with FAO on country interaction, tools, and support.

#	Item	Presenter(s)	Duration	Start	End	Notes
37	Session Overview - Objectives	S Wilson	10	14:30	14:40	
38	Colombia Activities Overview	E Cabrera	15	14:40	14:55	
39	SDCG Support to Colombia	B Killough	15	14:55	15:10	
40	SilvaCarbon Support to Colombia	S Wilson	15	15:10	15:25	
41	Related FAO Activities	E Lindquist	15	15:25	15:40	

42	Discussion - Q&A	All	20	15:40	16:00
	Break		15	16:00	16:15
43	Peruvian Activities - Application of global forest products (TBC)	S Wilson, M Hansen (TBC)	30	16:15	16:45
44	Concluding Discussion	All	35	16:45	17:20
45	Concluding Remarks	E Fosnight	10	17:20	17:30
	Adjourn			17:30	



Friday 9th September



**Space Data Coordination Group for GFOI - SDCG-10**

Location: University of Reading

Meeting Room: 1L61, Department of Meteorology, Building 58

Registration / Arrival 30 8:30 9:00

**Friday's Objective:**

- Review discussion and confirm next steps and actions.
- Prepare points for CEOS reporting.
- Discuss plans for future SDCG meetings.

**Session 7: SDCG Business and SDCG-10 Wrap-Up Discussions** Session Chair: S Ward

**Session 7 Objectives:**

- 10. Consider revisions to the SDCG 3-Year Work Plan for 2017-2019.
- 11. Prepare required SDCG inputs for CEOS SIT Technical Workshop and Plenary.

#	Item	Presenter(s)	Duration	Start	End	Notes
46	Review Main Discussion Points by Work Thread - Baseline strategy - R&D - UK session - Space Data Services - Colombia session	All	60	9:00	10:00	
47	Updates to SDCG 3-Year Work Plan - Status of outcomes - Update for 2017-2019	G. Dyke	15	10:00	10:15	
	Break		15	10:15	10:30	
48	SDCG Future Activities - SDCG meetings in 2017 - Coordination with other CEOS groups/meetings (e.g. LSI-VC, SIT, GEOGLAM)	SDCG SEC	30	10:30	11:00	
49	SDCG Reporting to CEOS - SIT Technical Workshop - CEOS Plenary	SDCG SEC	20	11:00	11:20	
50	Review of Actions	SDCG SEC	20	11:20	11:40	
51	Closing Remarks	E Fosnight, FM Seifert	10	11:40	11:50	
	SDCG-10 Adjourn			11:50		
	Lunch		75	11:50	13:05	

**SDCG Exec meeting**

52	SDCG EXEC Meeting	SDCG EXEC, SEC, and SEO	60	13:05	14:05	
	SDCG EXEC Adjourn			14:05		



## SDCG 3-Year Work Plan Outcomes for 2016 - 2018

### Baseline Global Data Acquisitions

#	Outcome	2016	2017	2018
1	<b>Multiple annual global coverages by 2016 of the world's forested areas</b>	Multiple global annual coverages of the world's forested areas from a suite of core mission sensors	Multiple global annual coverages of the world's forested areas by several core mission sensors	Multiple global annual coverages of the world's forested areas by several core mission sensors
2	<b>Efficient and effective global flows of data</b>	Complete global data flow study in cooperation with USGS, ESA/EC and SDCG Exec	Implement processes and tools for efficient and effective global flows of data	Efficient and effective global flows of data for development of GFOI standard products
3	<b>Global coverage with consistent information products</b>	Identify Space Agency and expert partner information product initiatives relevant to GFOI and MDG (e.g. ongoing evolution of the Landsat product roadmap towards surface reflectance, development of Sentinel-2 surface reflectance products)	Inclusion of GFOI requirements in agency data-related initiatives	Integrate flows of information products as they become available



## GFOI Space Data Services

#	Outcome	2016	2017	2018
4	<b>Space Data Services closely integrated with new MGD and SilvaCarbon activities</b>	Continued definition of approach with FAO, World Bank, and SilvaCarbon on tools and service delivery and mainstreaming Establish integration of Space Data Services with the MGD Portal and MGD 2.0.	Implementation of service delivery in coordination with FAO, World Bank, and SilvaCarbon	Close integration with MGD and SilvaCarbon components, FAO and World Bank
5	<b>A program of space data capacity building meetings</b>	Further workshops at SDCG and SilvaCarbon events with country prioritisation defined by agreement with SilvaCarbon, FAO, and World Bank and endorsed by the GFOI Lead Team	Continued meetings with priority countries	Space data meetings including national space data needs assessments for all priority countries
6	<b>Ensured on-going coverage</b>	Archive characterisation support and on-going coverage support provided for countries attending 2016 meetings	Ensured on-going coverage for priority countries with semi-automated tools for archive characterisation	Ensured on-going coverage for priority countries with semi-automated tools for archive characterisation
7	<b>Interoperable satellite data discovery tools</b>	Work with core data stream providers to define discovery tools required, and study archive interoperability challenges	Implementation of interoperable data discovery tools including Landsat, Sentinel-1 and -2, CBERS	Interoperable satellite data discovery tools for all core data streams
8	<b>Assembly &amp; delivery of core data streams</b>	Work with priority countries to try and address their data	Assembly & delivery of core data streams emphasizing direct	Assembly & delivery of core data streams emphasizing

#	Outcome	2016	2017	2018
		assembly and delivery needs	download	direct download
9	<b>Integration of space data within the GFOI Methods and Guidance</b>	GFOI Open Forum discussion on interaction between MGD Portal, MGD 2.0 and the SDCG tools and services Operational links to space data in MGD Portal	Finalisation of methodology to derive GFOI standard products using space data and reflection in the MGD.	Integration of space data within the GFOI MGD Portal, including agreement on the derivation of GFOI standard products using space data
10	<b>Conclude pilots investigating fundamental issues around the provision of cloud computing</b>	Develop pilots investigating fundamental issues around the provision of cloud computing Further work on SDMS Identification of operational pathways Closer collaboration between SDCG and FAO on SDMS and SEPAL	Conclude pilots investigating fundamental issues around the provision of cloud computing Transition of initial pilots to operations	Operational initiation of cloud computing instances and systematic transition and handover to operating partners
11	<b>Creation of a model national GFOI cloud computing search, storage and processing system</b>	Colombian and Kenyan national Data Cube projects established Initiate within the ESA Forestry TEP a demonstration of a sub-national system for Mexico	Colombian and Kenyan Data Cube transitioned to operational ESA Forestry TEP demonstration of a sub-national system for Mexico underway (Autumn 2017)	Goal of model national systems building on the experience of the pilots with Data Cube, SDMS and ESA TEP

### Space Data Support to GFOI Research & Development (Element 3)

#	Outcome	2016	2017	2018
12	<b>Development and updates of the Element-3 strategy document</b>	Update(s) of the Element 3 strategy document to reflect progress of the GFOI R&D Coordination Component, status of engagement of SDCG data stream providers. First update to be completed prior to SIT-31 for endorsement.	Update(s) of document as required	Update(s) of document as required
13	<b>Providing the satellite data required to progress the GFOI priority R&amp;D topics</b>	Dedicated satellite data acquisitions over R&D Study Sites Distribution of data to the GFOI R&D Study teams	Coordinate contacts and communications between SDCG data stream providers and GFOI research groups Acquisitions and distribution of satellite data	Acquisitions and distribution of satellite data
14	<b>An SDCG Element 3 strategy that ensures engagement and accountability, from the data providers (public, hybrid and commercial) and the R&amp;D teams, towards the advancement of GFOI Priority R&amp;D Topics</b>	Standard operating procedures for the SDCG Element 3 response and migration of the current GFOI R&D projects into the new framework	Current and new coordinated R&D activities that address GFOI priority R&D topics. SDCG Element 3 coordination to select new projects. Consolidated reporting from the space agencies and the R&D teams and migration of successful R&D outcomes into the MGD.	Current and new coordinated R&D activities that address priority R&D topics. SDCG Element 3 coordination to select new projects. Consolidated reporting from the space agencies and the R&D teams and migration of successful R&D outcomes into the MGD.

## GFOI Component Coordination and Country Engagement

#	Outcome	2016	2017	2018
15	<b>Delivery of a coherent customer experience for GFOI countries</b>	Coordinated plan for providing the most efficient provision of GFOI deliverables to countries – developed by the Space Data, MGD and Capacity Building Component Leads Develop at least two GFOI ‘end-to-end’ country engagement pilots involving all GFOI components	Effective coordination among GFOI Components for engaging and supporting follow-up with priority countries	Effective coordination among GFOI Components for engaging and supporting follow-up with priority countries
16	<b>Space data support and services provided to all priority countries</b>	FAO and SilvaCarbon will help define the priority countries for GFOI support and deliverables	As dictated by the country prioritisation above, in collaboration with FAO, World Bank, SilvaCarbon, and GFOI Lead Team	Capacity to provide space data support and services to all priority countries
17	<b>Effective management of country interfaces</b>	Development of simple Excel-based database for internal SDCG purposes Establish <i>modus operandi</i> in collaboration with FAO and GFOI Leads for country engagement	Transition to GFOI Office as appropriate	Effective management of country interfaces in coordination with FAO and SilvaCarbon via a country relationship database